Minor
OPERATION AND MAINTENANCE
Activity Plan

RACEWAY INSTALLATION for ARGUS FIBER OPTIC LOOP

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1. INTRODUCTION

Project (Y721) replaces the E3S security system with the Argus security system in H-Area, including HB-Line, H-Canyon, and H/F Tank Farms. The project will maintain all E3S functionality by replacing E3S sub-systems with Argus. These subsystems include: Access Control System (ACS), Intrusion Detection System (IDS), and the Closed-Circuit Television (CCTV) Camera & Video System (referred to as IVAS / Integrated Video Assessment System).

An Operations and Maintenance (O&M) Plan was required because Construction Services will install a raceway system for a new single mode fiber optic cable loop per S-DCP-H-16006. Work Order No. 01659690 will install conduit and boxes, fiber optic cabinets, and duct banks.

- Duct Bank Installation (Manhole MH-59 to 701-15H)
- Duct Bank Installation (Handhole HH-F to 221-H West Wall Section 15)

This activity is within Site Index (SI) 549 (General Separations Area Eastern Groundwater Operable Unit, No Building Number (NBN)) of the Federal Facility Agreement (FFA, Reference 1). It is also within 200 feet of SIs 344 (Sand Blast Area CMH-001, NBN). SIs are also called RCRA/CERCLA Units. These SIs are in the FFA because of possible radiological contamination from past releases from H-Area operations. To date, there has been no remediation of these units.

This plan is characterized as "minor intrusive activity" based on the soil excavation meeting the definition of both "minor" and "intrusive" as defined in Reference 2.

2. AREA DESCRIPTION AND CONDITIONS

The areas in which these activities will be conducted are on the west side of H Canyon at section 15 and southwest of Security Building 701-15H. The excavation at section 15 will be 25-feet (north), 25-feet (east), by 3-feet deep by 1-foot wide. The excavation near building 701-15H will be 25-feet (east), 25-feet (north, by 3-feet deep by 1-foot wide.

3. O & M ACTIVITY

A. O&M Activity Description

The scope of the activity is to hand dig a 3-foot depth by 1-foot wide excavation for installation of a fiber optic raceway. SRNS Construction Services will perform the work in accordance with the provisions of Asset Suite Work Order #1659690 and AHA #HCA-23035. The activity occurs within a general SI and adjacent to several identified SIs. Work is expected to take no more than 5 days.

ALL EXCAVATED SOIL IS EXPECTED TO BE RETURNED TO THE ORIGINAL LOCATION OF SOIL DISTURBANCE. THE DISPOSAL OF ANY SOIL WILL BE PER

THE ENVIRONMENTAL COMPLIANCE AUTHORITY (ECA) AND RADIOLOGICAL PROTECTION (RP) DIRECTION.

B. O&M Activity Sampling and Monitoring for Health and Safety

The identified units are in the FFA because of possible radiological contamination from past releases from H-Area operations.

Radiological surveys will be required at the excavation site adjacent to Section 15 on the west side of H Canyon. If radiological contamination is encountered, RP will determine if protective equipment and personnel access restrictions are required.

Worker health and safety will be directed and controlled as required in the Assisted Hazard Analysis (AHA).

C. Health and Safety Plan

The health and safety concerns involve worker exposure to potential radiological contamination. RP shall provide for radiological monitoring during the excavation activities.

The work will be completed in accordance with the requirements stated in the AHA. The safety requirements and personal protective equipment described in the AHA are appropriate for the potential hazards related to the RCRA/CERCLA units.

Characterization and Sampling Plan for the Affected Area within the Unit

RP has prepared a sampling plan for work in this area and will conduct sampling of the soil excavated during this activity. If unexpected contamination is found, the SRNS On-Scene Coordinator (OSC) may request additional work scope and sampling from soil disturbed by the activity. Material removed as part of the excavation will be returned as backfill when the activity is completed.

D. Contaminated Materials Management and/or Disposal

Based on previous excavations in the vicinity, radiological contamination is not expected in the excavated soil. All waste will be disposed in accordance with guidance from RP, the Generation Certification Official (GCO), and the ECA. Clean soil will be returned to the excavation once raceway installation is complete.

F. Environmental Plans and Permit Modification Requests

This activity is not expected to involve other environmental plans / permits, required maintenance and inspections, or erosion control practices.

4. CONTINGENCY PLAN

During implementation of the activity, if the conditions change at any time such that the activity is no longer considered "minor" (as defined in Reference 2) or any other unanticipated event occurs, the Project Manager, the Project Construction Manager, or the ECA shall:

- Immediately notify the SRNS-OSC. If necessary, the SRNS-OSC will notify the DOE-OSC.
- Stop work, secure the area, contain and stabilize the area, and determine any necessary change to the activity plan.
- Notify the SRNS-OSC of the findings and proposed path forward. The SRNS-OSC will communicate the information to the DOE-OSC and obtain concurrence on the path forward.

5. DOCUMENTATION & REPORTING

H Canyon will transmit the following documentation to the SRNS-OSC within twenty days of the completion of the activity:

- The signed O&M plan
- Any sampling and characterization data collected

The following information is not expected to be generated by this activity, but, if generated, will be forwarded to the SRNS-OSC:

- The quantity (if any) of any contaminated materials generated, and
- The disposal location of any contaminated material, if generated.

Attachments

Attachment 1. Storm Water Outfall H-08 Map with Approximate Location of Domestic Water

References

1. SRNS-OS-94-42, Federal Facility Agreement for the Savannah River Site, Administrative Document Number 89-05-FF, effective August 16, 1993, Revision 0 of Appendix C for Fiscal Year 2017.

2. SRNS-RP-96-45, *Savannah River Site Plan for Performing Maintenance in Federal Facility Agreement Area (O&M) Plan (U)*, December 15, 1996.

Attachment 1: Aerial View/Waste Units

